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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/674,016	09/30/2003	Satoru Miyagi	100021-00133	2380	
4372	7590 12/01/2004		EXAM	EXAMINER	
ARENT FOX KINTNER PLOTKIN & KAHN			WELLS, KENNETH B		
SUITE 400	ECTICUT AVENUE, N	v.w.	ART UNIT	PAPER NUMBER	
WASHINGT	ON, DC 20036		2816		

DATE MAILED: 12/01/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

			12.17
	Application No.	Applicant(s)	—— ———
	10/674,016	MIYAGI, SATORU	
Office Action Summary	Examiner	Art Unit	
	Kenneth B. Wells	2816	
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address	
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tim y within the statutory minimum of thirty (30) day vill apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communicati D (35 U.S.C. § 133).	ion.
Status			
1) Responsive to communication(s) filed on 12 O	ctober 2004.		
	action is non-final.		
3) Since this application is in condition for alloward closed in accordance with the practice under E			is
Disposition of Claims			
4) ☑ Claim(s) <u>1.3-20 and 23-28</u> is/are pending in the 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☑ Claim(s) <u>1.3-20 and 23-28</u> is/are rejected.	• •	·	
7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/o	r election requirement.		
Application Papers	•		
9)☐ The specification is objected to by the Examine	r.		
10) ☐ The drawing(s) filed on is/are: a) ☐ acc	epted or b) \square objected to by the $\mathfrak l$	Examiner.	
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex			(d).
Priority under 35 U.S.C. § 119			
12) △ Acknowledgment is made of a claim for foreign a) △ All b) ☐ Some * c) ☐ None of: 1. △ Certified copies of the priority document: 2. ☐ Certified copies of the priority document: 3. ☐ Copies of the certified copies of the priority application from the International Bureau	s have been received. s have been received in Applicati ity documents have been receive	on No	
* See the attached detailed Office action for a list		d.	
Attachment(s)	•		
Notice of References Cited (PTO-892)	4) Interview Summary		
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	atent Application (PTO-152)	

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1. The amendment filed on 10/12/04 has been received and entered in the case.

- 2. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 3. Claims 3-20 and 25-28 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

These claims still include the improper relative terminology that was pointed out in the previous office action (e.g., "large", "small", "slowly", etc).

4. Claims 1, 3-20 and 23-28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mashiko.

As noted in the previous office action, Mashiko discloses all of the claimed limitations in each of the independent claims, except for the recited back-gate biasing now included in each of claims 1 and 8. This would have been obvious, however, to those having ordinary skill in the art (as also noted in the previous office action) because such backgate biasing is old and well-known (note instant Fig. 1E, for example) for the purpose

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of applying the necessary high potential to the bulk of FET Q1 in Fig. 1 of Mashiko (i.e., because FET Q1 is a PMOS transistor).

As to the amendments to claim 9, note that the waveshaping circuit of Mashiko (either circuit 15 or the combination of circuits 13 and 15) outputs its signal to the gate of FET Q1.

The remaining claim limitations are either disclosed by Mashiko or obvious in of this reference, as noted in the previous office action. Thus, all claims remain rejected as being unpatentable over this reference.

5. Applicant's arguments filed on 10/12/04 have been fully considered but they are not persuasive.

The argument that Mashiko fails to disclose that the second power supply terminal of the load circuit is connected to the real low-potential power supply line is not persuasive because it is incorrect, i.e., logic circuit 11 has its low power supply terminal coupled to the real low-potential power supply line (ground) through FET Q2.

The next argument, that in claims 1 and 8 there is no high-threshold N-channel MIS field effect transistor provided between the real low-potential power supply line and the pseudo low-potential power supply line, is not persuasive because it is

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improper to argue what the claims do not include, i.e., applicant must argue what the claims do include that the prior art does not disclose or suggest.

The next argument, that Mashiko does not show a connection to a second real low-potential power supply line, is not persuasive because it is also incorrect, i.e., the connection to a second real low-potential power supply line (ground) is clearly shown in both Figs 1 and 12(A).

The final argument, concerning the output signal of the waveshaping circuit rising slowly, is not persuasive because this terminology is indefinite, as noted above and as noted in the previous office action (moreover, no difference is seen between the slew rate of Mashiko's waveshaping circuit output signal and that of the instant invention).

6. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will

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expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kenneth B. Wells whose telephone number is (571)272-1757. The examiner can normally be reached on Monday through Friday from 8:30am to 5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy P. Callahan, can be reached at (571)272-1740. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on

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access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

Kenneth B. Wells Primary Examiner Art Unit 2816 Page 6

November 26, 2004